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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/918,969	07/30/2001	Roger Stringham	2923.03-2.1	3144

24001 7590 05/02/2002

FINLEY & BERG, LLP
455 MARKET STREET
SUITE 1940
SAN FRANCISCO, CA 94105-2448

EXAMINER

BEHREND, HARVEY E

ART UNIT PAPER NUMBER

3641

DATE MAILED: 05/02/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 09/908969	Applicant(s) Stringham
Examiner Behrend	Group Art Unit 3481

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE one MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Status

- ☐ Responsive to communication(s) filed on _____.
- ☐ This action is **FINAL**.
- ☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- ☒ Claim(s) 1-30 is/are pending in the application.
- ☐ Of the above claim(s) _____ is/are withdrawn from consideration.
- ☐ Claim(s) _____ is/are allowed.
- ☐ Claim(s) _____ is/are rejected.
- ☐ Claim(s) _____ is/are objected to.
- ☒ Claim(s) 1-30 are subject to restriction or election requirement.

Application Papers

- ☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.
- ☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.
- ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- ☐ The specification is objected to by the Examiner.
- ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119 (a)-(d)

- ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
 - ☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been received.
 - ☐ received in Application No. (Series Code/Serial Number) _____.
 - ☐ received in this national stage application from the International Bureau (PCT Rule 1.7.2(a)).

*Certified copies not received: _____

Attachment(s)

- ☐ Information Disclosure Statement(s), PTO-1449, Paper No(s): _____
- ☐ Interview Summary, PTO-413
- ☐ Notice of Reference(s) Cited, PTO-892
- ☐ Notice of Informal Patent Application, PTO-152
- ☐ Notice of Draftsperson's Patent Drawing Review, PTO-948
- ☐ Other _____

Office Action Summary

Art Unit: 3641

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-22, 25-30 drawn to an invention, classified in class 376, subclass 146.

II. Claims 23, 24 drawn to an invention, classified in class 376, subclass 100.

The inventions are distinct, each from the other because:

Inventions II and I are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP §806.05(e)). In this case the apparatus as claimed can be used to practice another materially different process such as a process for transmuting radioactive waste as referred to in the Hagelstein document referred to on pages 2 and 3 of the instant application.

2. Upon election of one of the inventions identified above as I and II, applicant is further required under 35 U.S.C. 121 to elect one of the following disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable (currently, no claim is generic):

A. The arrangement as illustrated in Fig. 1.

B. The arrangement as illustrated in Fig. 4.

C. The arrangement as illustrated in Fig. 5.

D. The arrangement as illustrated in Fig. 6.

E. The arrangement as illustrated in Fig. 7.

3. Upon election of one of the species identified above as A-E, applicant is further required under 35 U.S.C. 121, to elect a single ultimate species of energy source, for purposes of examination. This is to facilitate examining due to the numerous types of energy sources disclosed and claimed as a being suitable (e.g. see claim 2).
4. Upon election of one of the species identified above as A-E, applicant is further required under 35 U.S.C. 121 to elect a single ultimate species of reactant material (e.g. H₂, H₂O, D₂O, etc., including any liquid it may be in)(and if in compound, composition or mixture form, the exact constituents of said compound, composition or mixture), for purposes of examination. This is to facilitate examining due to the broad range of materials disclosed and claimed as being suitable (e.g. see claim 1).
5. Upon election of one of the species identified above as A-E applicant is further required under 35 U.S.C. 121, to elect a single ultimate species of catalytic material, for contact with or positioning atoms, etc., of the reactant material, for purposes of examination. This is to facilitate examining due to the broad range of materials disclosed and claimed as a being suitable (e.g. see claim 1).
6. Upon election of one of the species identified above as A-E, applicant is further required under 35 U.S.C. 121, to elect a single ultimate species of the physical form of the catalytic material, for purposes of examination. This is to facilitate examining due to the broad range of forms disclosed and claimed as a being suitable (e.g. see the specification on page 7, lines 11,12 and claim 10).

Art Unit: 3641

7. Upon election of one of the species identified above as A-E, applicant is further required under 35 U.S.C. 121 to elect one of the following disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable (currently, no claim is generic).

X. Wherein the reactant material is itself in liquid form (e.g. see claim 1).

Y. Wherein the reactant material is dissolved in a liquid (e.g. see claim 1).

Z. Wherein the reactant material is mixed with a liquid (e.g. see claim 1).

8. Upon election of one the species identified above A-E, applicant is further required under 35 U.S.C. 121 to elect one of the following disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable (currently, no claim is generic).

M. Wherein the means for conducting heat includes a circulation system and a heat exchanger.

N. Wherein the means for conducting heat includes bimetallic thermo-electric means.

9. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species, which are written in dependent form or otherwise include all the limitations of an allowed generic claim as a provided by CFR 1.141. If claims are added after

Art Unit: 3641

the election, applicant must indicate which are readable upon the elected species. MPEP §809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harvey Behrend whose telephone number is (703) 305-1831.


The examiner normally can be reached on Tuesday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone, can be reached on (703) 306-4198. The fax phone number for the organization where this application or proceeding is assigned is (703) 306-4195.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

HEB/jph

4-23-02


HARVEY E. BEHREND
PRIMARY EXAMINER